Engineering Division
ACCIDENT REVIEW BOARD
Friday, June 3, 2003
10:00 a.m.– 11:30 a.m.
Minutes

Present
Jim Triplett (Division Director)
Bill Edwards (Engineering Sciences)
Peter Denes (Electronics Engineering)
Deb Hopkins (Technology Transfer, Industrial & Energy Partnerships)
Lowell Koht (Design & Fabrication)
R.P. Singh (Software Engineering)
Kevin Bradley, Guest (Mechanical Engineering)
Slawomir Kwiatkowski, Guest (Electronic Engineering)
Guy Pulsifer, Guest (Design & Fabrication)
Paris Gordon (Division Safety Coordinator Administrative Support)
Kam Tung (EH&S Liaison to Engineering)
Weyland Wong (Division Safety Coordinator)

Absent
Victor Karpenko (Mechanical Engineering)> out of office

- Accident Review Board reviewed five recordable accidents

    - **Case #1** – Employee was performing helium leak checks on a vacuum chamber.
    - Needed to lie on back, shimmy into opening; reach around and into CCD camera flange to perform the procedure.
    - Felt muscle pull in upper back right side in trying to get into location.
        - **Resolutions** –
            1. Use better body mechanics techniques
            2. Build and use "creeper" type device to facilitate entry & exit

    - **Case#2** – Employee performed continuous lathe work for the day, using the tailstock handwheel for majority of tasks.
    - Woke up in the middle of the night in severe pain and went to ER for pain management.
        - **Resolutions** –
            1. Review future work to seek possible alternatives to extensive and or continuous manual machining
            2. (Body mechanics) Change wrist rotation motion to arm/shoulder rotation motion

    - **Case#3** – Employee stated while using a surface grinder, he hit the edge of the moving wheel when checking the mounting of a part, causing him to lacerate his right index finger.
        - **Resolutions** –
            1. Maintain greater clearance to rotating /moving equipment components
            2. Seek/sought alternative method (not requiring grinding) to make parts

- **Case#4** – Employee stated when taking a very light lathe machining cut on a stainless steel ring with a boring bar, stringy chips were generated which were brought up and swung around by the work holding hardware.
- Lacerated left hand/wrist.
- Spindle speed ~150 RPM.
- Hand spraying coolant from bottle with right hand.
    - **Resolutions** –
        1. Maintain greater clearance to rotating / moving equipment and components
        2. Better manage generated and accumulation of chips as well as anticipating the hazard and risk of chips be caught, brought into rotation and being flung

- **Case#5** – Employee stated an initial attempt to loosen large screw set on a large motor extension shaft was unsuccessful.
- While in restricted shaft housing space, used pliers to apply leverage on hex key with right hand while using left hand to steady pliers grip to hex key.
- When force was applied, teeth of pliers slipped, grabbed and tore loose a small piece of skin.
    - **Resolutions** –
        1. Use appropriate tools
        2. Socket wrench hex key drivers were purchased

Action Item

- Schedule the balance of this year's injuries for the next Accident Review Board Meeting; insure that future reviews are timelier to occurrence of incident.
- Make injury accident data more readily available for supervisors and managers to share at their safety meetings.

Meeting adjourned at 11:15 am, next Accident Review Board Meeting scheduled, June 26, 2003.